

Fig. 1 (prior art)

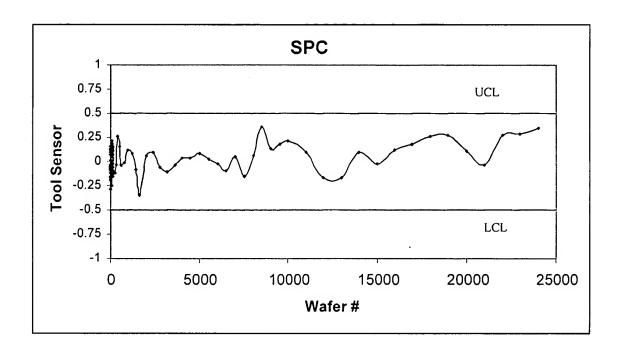


Fig. 2 (prior art)



Title: A Method of Fault Detection in Manufacturing Equipment Filing Date: March 2, 2004

First Named Inventor: Michael Hopkins Docket No: 54593/297131

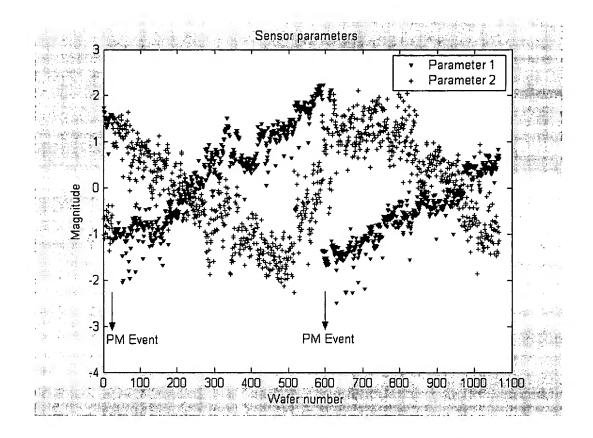


Fig. 3 (prior art)

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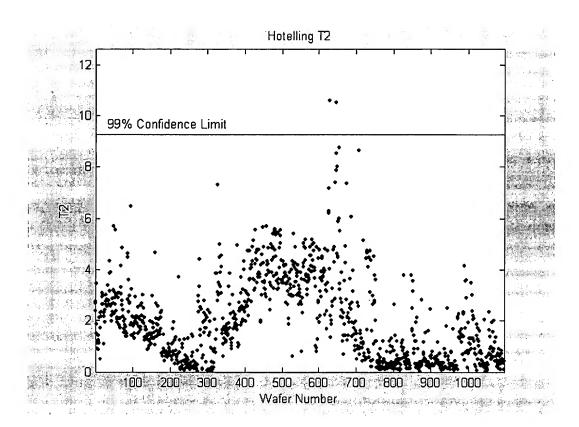


Fig. 4 (prior art)

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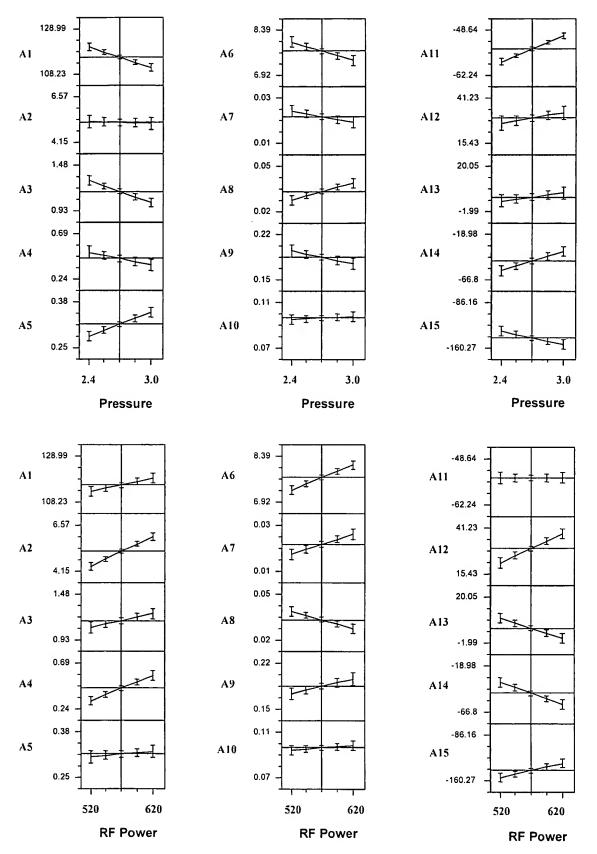


Fig. 5

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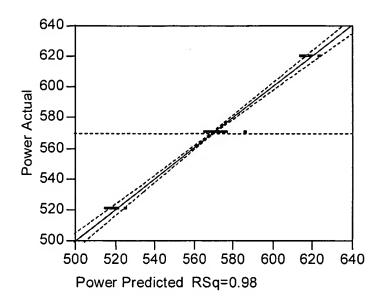
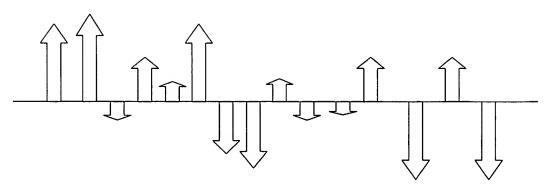
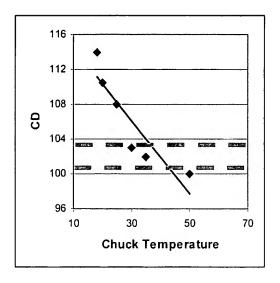


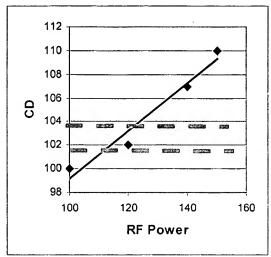
Fig. 6

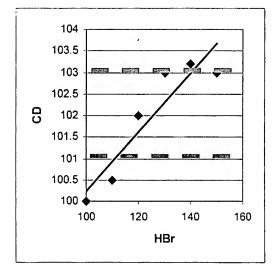


al a2 a3 a4 a5 a6 a7 a8 a9 a10 a11 a12 a13 a14 a15

Fig. 7







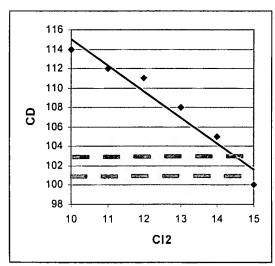


Fig. 8

Filing Date: March 2, 2004

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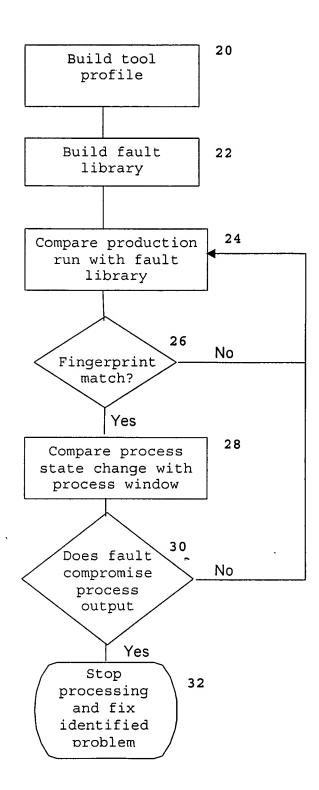
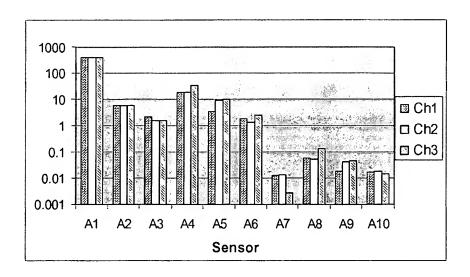


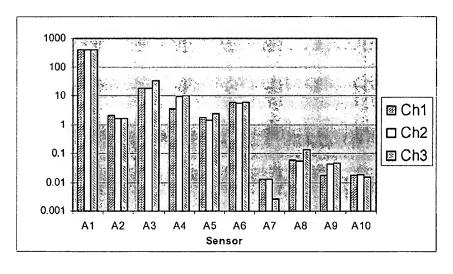
Fig. 9

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(A)



(B)

Fig. 10

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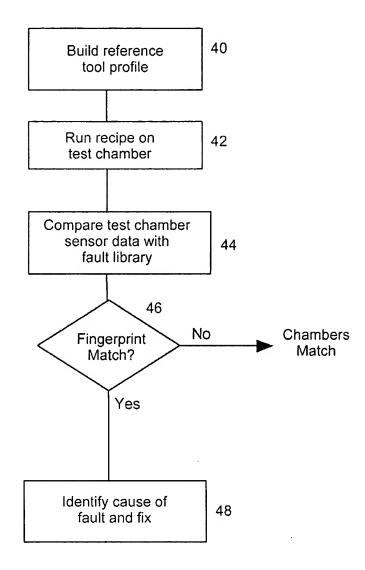
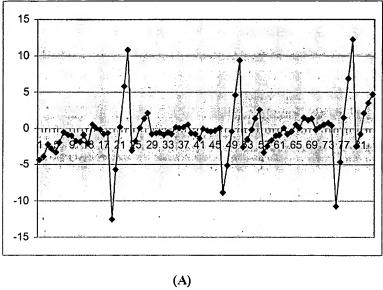


Fig. 11



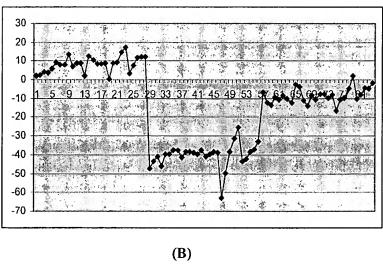


Fig. 12

Wafer Number	Forced Change	Change Direction
1	Argon	•
2	Argon	Nominal
3	Argon	+
4	C5F8	-
5	C5F8	-
6	C5F8	Nominal
7	C5F8	+
8	C5F8	+
9	Gap -	- ·
10	Gap	-
11	Gap	Nominal
12	Gap	+
13	Gap	+
14	Oxygen	
15	Oxygen	-
16	Oxygen	Nominal
17	Oxygen	+
18	Oxygen	+
19	Power	-
20	Power	-
21	Power	Nominal
22	Power	+
23	Power	+
24	Pressure	-
25	Pressure	-
26	Pressure	Nominal
27	Pressure	+
28	Pressure	+

Fig. 13